

**TRANSCRIPTION FACTORS THAT REGULATE NORMAL AND MALIGNANT**  
**CELL GROWTH**

**ABSTRACT**

[0112]        The invention provides TBX5 protein fragments that regulate normal and malignant cell growth and nucleic acids encoding these fragments. Such protein fragments include a translated 5' T-box sequence capable of binding to the major groove of target DNA and lack a translated 3' T-box sequence that binds to target DNA's minor groove. In particular, the invention provides protein fragments that inhibit cell proliferation, this activity requiring T-box interaction with target DNA's major groove, but not target DNA's minor groove.